SIEMENS

Data sheet

7PV1508-1BW30



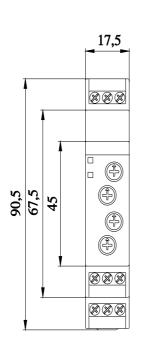
Timing relay, electronic Multifunction 2 change-over contacts, 7 functions 7 time ranges 0.05 s \dots 100 h 12-240 V AC/DC with LED, Screw terminal

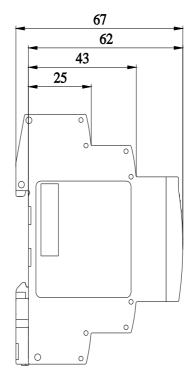
product brand name	SIRIUS
product designation	timing relay
design of the product	Multifunctional
product type designation	7PV15
General technical data	
product component semi-conductor output	No
product extension required remote control	No
product extension optional remote control	No
insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value	300 V
test voltage for isolation test	2.2 kV
degree of pollution	2
surge voltage resistance rated value	4 000 V
test voltage for surge voltage test	4 800 V
protection class IP	IP20
shock resistance according to IEC 60068-2-27	11g / 15 ms
vibration resistance according to IEC 60068-2-6	10 55 Hz: 0.35 mm
mechanical service life (operating cycles) typical	10 000 000
electrical endurance (operating cycles) at AC-15 at 230 V typical	100 000
adjustable time	0.05 s 100 h
relative setting accuracy relating to full-scale value	5 %; +/-
minimum ON period	35 ms
recovery time	500 ms
reference code according to IEC 81346-2	К
relative repeat accuracy	2 %; +/-
influence of the surrounding temperature	2% in complete temperature range for the set duration
power supply influence	2% in complete voltage range for the set duration
Substance Prohibitance (Date)	05/01/2012
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage 1 at AC	
● at 50 Hz	12 240 V
• at 60 Hz	12 240 V
control supply voltage frequency 1	50 60 Hz
control supply voltage 1	
● at DC	12 240 V
operating range factor control supply voltage rated value at DC	
• initial value	0.85
• full-scale value	1.1

operating range factor control supply voltage rated value at	
AC at 50 Hz	
● initial value	0.85
• full-scale value	1.1
operating range factor control supply voltage rated value at	
AC at 60 Hz	
● initial value	0.85
• full-scale value	1.1
Switching Function	
switching function	
• ON-delay	Yes
 ON-delay/instantaneous contact 	No
 passing make contact 	Yes
 passing make contact/instantaneous contact 	No
• OFF delay	No
switching function	
 flashing symmetrically with interval start/instantaneous 	No
 flashing symmetrically with interval start 	Yes
 flashing symmetrically with pulse start/instantaneous 	No
 flashing symmetrically with pulse start 	No
 flashing asymmetrically with interval start 	No
 flashing asymmetrically with pulse start 	No
switching function	
 star-delta circuit with delay time 	No
• star-delta circuit	No
switching function with control signal	
additive ON-delay	No
 passing break contact 	No
 passing break contact/instantaneous 	No
• OFF delay	Yes
OFF delay/instantaneous	No
 pulse delayed 	Yes
 pulse delayed/instantaneous 	No
 pulse-shaping 	Yes
 pulse-shaping/instantaneous 	No
 additive ON-delay/instantaneous 	No
ON-delay/OFF-delay	Yes
 ON-delay/OFF-delay/instantaneous 	No
 passing make contact 	No
 passing make contact/instantaneous contact 	No
switching function of interval relay with control signal	
 retrotriggerable with deactivated control signal/instantaneous contact 	No
 retrotriggerable with switched-on control signal 	No
 retrotriggerable with switched-on control signal/instantaneous contact 	No
 retriggerable with deactivated control signal 	No
design of the control terminal non-floating	Yes
Short-circuit protection	
design of the fuse link for short-circuit protection of the auxiliary switch required	fuse gL/gG: 4 A
Auxiliary circuit	
material of switching contacts	AgSnO2
number of NC contacts	
 delayed switching 	0
 instantaneous contact 	0
number of NO contacts	
 delayed switching 	0
 instantaneous contact 	0
number of CO contacts	
 delayed switching 	2
instantaneous contact	0

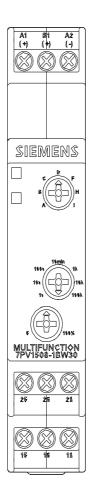
operational current of auxiliary contacts at AC-15	
• maximum	3 A
• at 24 V	3 A
• at 250 V	3 A
operational current of auxiliary contacts as NC contact at AC-15	
• at 24 V	3 A
• at 250 V	3 A
operational current of auxiliary contacts as NO contact at	
AC-15	
• at 24 V	3 A
• at 250 V	3 A
operational current of auxiliary contacts at DC-13	1 0.01
operational current of auxiliary contacts at DC-13	
• at 24 V	1 A
• at 125 V	0.22 A
• at 250 V	0.1 A
operating frequency with 3RT2 contactor maximum	5 000 1/h
contact reliability of auxiliary contacts	one incorrect switching operation of 100 million switching operations (17 V, 5
	mA)
contact rating of auxiliary contacts according to ULswitching capacity current with inductive load	R150 / B300 0.01 3 A
	0.01 3 A
Inputs/ Outputs	
product function	
 at the relay outputs switchover delayed/without delay 	No
non-volatile	No
Electromagnetic compatibility	
EMC immunity according to IEC 61812-1	EN 61000-6-2
conducted interference	
 due to burst according to IEC 61000-4-4 	2 kV network connection / 1 kV control connection
 due to conductor-earth surge according to IEC 61000-4-5 	2 kV
due to conductor-conductor surge according to IEC 61000-4-5	1 kV
field-based interference according to IEC 61000-4-3	10 V/m
electrostatic discharge according to IEC 61000-4-2	4 kV contact discharge / 8 kV air discharge
Safety related data	
type of insulation	Basic insulation
category according to EN 954-1	none
Connections/ Terminals	
product component removable terminal for auxiliary and control circuit	No
type of electrical connection for auxiliary and control circuit	screw-type terminals
type of connectable conductor cross-sections	
• solid	1x (0.2 2.5 mm²)
 finely stranded with core end processing 	1x (0.25 1.5 mm ²)
 finely stranded without core end processing 	1x (0.2 1.5 mm²)
for AWG cables solid	1x (24 14)
 for AWG cables stranded 	1x (24 14)
connectable conductor cross-section	
• solid	0.2 2.5 m²
 finely stranded with core end processing 	0.25 1.5 m ²
 finely stranded without core end processing 	0.2 1.5 m ²
AWG number as coded connectable conductor cross section	
• solid	24 14
• stranded	24 14
Installation/ mounting/ dimensions	
mounting position	any
fastening method	snap-on fastening on 35 mm DIN rail
height	90 mm
width	
	17.5 mm
depth	17.5 mm 66.7 mm

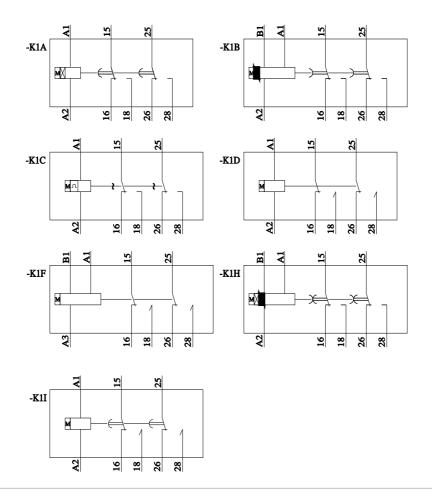
equired spacing								
• with side-by-side	mounting							
— forwards			0 mm					
- backwards			0 mm					
— upwards			0 mm					
- downwards			0 mm					
— at the side			0 mm					
 for grounded parts 	6							
— forwards			0 mm					
— backwards			0 mm					
— upwards			0 mm					
— at the side			0 mm					
- downwards			0 mm					
 for live parts 								
— forwards			0 mm					
— backwards			0 mm					
— upwards			0 mm					
— downwards			0 mm					
- at the side			0 mm					
bient conditions								
	ight above sea level ma	ximum	2 000 m					
mbient temperature	.g above bea level fild.		2 000 m					
during operation			-25 +55	°C				
 during operation during storage 			-20 +35					
 during storage during transport 			-40 +70					
elative humidity during of	noration		-	C				
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Alle Bemassungswerte sind in Millimeter (mm) angegeben All dimensions are in millimeters (mm)





last modified:

11/21/2022 🖸